Patent Claims:

AI

Device for actuating a brake system (4) to accomplish a brake assist function, especially for automotive vehicles, wherein a damping effect and/or a counterforce of a brake pedal (1) can be adjusted by way of a control unit (5), and the control unit (5) reduces the damping effect and/or the counterforce of the brake pedal (1) when the brake assist function is activated, and the resulting actuating travel of the brake pedal (1) which is sensed by way of a sensor (2) of the brake pedal (1) is taken into account for determining the vehicle deceleration which is to be effected by the brake system (4).

- 2. Device as claimed in claim 1, c h a r a c t e r i z e d in that the counterforce depends on the speed of application and/or the acceleration of application of the driver's foot for braking and is adjusted to a lower amount when the speed of application and/or the acceleration of application is high.
- 3. Device as claimed in claim 1 or 2 characterized in that the counterforce is responsive to pedal travel and rises with an increasing actuating travel.
- 4. Device as claimed in at least one of claims to 3, c h a r a c t e r i z e d in that the damping effect depends on the speed of application and/or the acceleration of application of the driver's foot for braking; and is adjusted to a lower amount when the speed of application and/or the acceleration of application is high.

A7 Cont.

- 5. Device for actuating a brake system to accomplish a brake assist function, especially for automotive vehicles, wherein a control unit (5) changes a brake force acting in the system depending on an actuating travel sensed by a sensor (2), an actuating speed and/or an acceleration of actuation of a brake pedal (1) when the brake assist function is activated, and the brake force acting in the system corresponds to a ratio between the determined actuating travel and a vehicle deceleration to be effected by the brake system (4).
- 6. Device as claimed in claim 5, characterie ed in that the brake force acting in the system is augmented with a rising actuating travel, a rising actuating speed and/or a rising acceleration of actuation.
- 7. Device as claimed in claim 5 or 6, c h a r a c t e r i z e d in that the brake force acting in the system is reduced continuously to a normal brake force when the actuating travel decreases.
- Device for actuating a brake system (4) to accomplish a 8. brake assist function, especially for automotive vehicles, wherein a control unit (5) reduces a damping effect and/or a counterforce of a brake pedal (1) when the brake assist function is activated, and the resulting actuating travel of the brake pedal (1) which is determined by way of a is taken into the brake pedal (1) of consideration for determining the vehicle decelaration to be effected by the brake system (4), and wherein the control, unit (5) changes a brake force acting in the system depending on the sensed actuating travel actuating speed and/or an acceleration of actuation of the pedal (1) when the brake assist function brake

A1 Cort.

activated, the said brake force acting in the system corresponding to a ratio between the sensed actuating travel and the deceleration to be effected by the brake system (4).

- 9. Method for actuating a brake system (4) to accomplish a brake assist function, especially for automotive vehicles, wherein a control unit (5) executes the following steps:
 - reducing a damping effect and/or a counterforce of a brake pedal (1) when the brake assist function is activated, and
 - taking into account the resulting actuating travel of the brake pedal (1) which is sensed by way of a sensor (2) of the brake pedal (1) for determining the vehicle deceleration which is to be effected by the brake system.
- 10. Method for actuating a brake system (4) to accomplish a brake assist function, especially for automotive vehicles, wherein a control unit (5) changes a brake force acting in the system depending on an actuating travel sensed by a sensor (2), an actuating speed and/or an acceleration of actuation of a brake pedal (1) when the brake assist function is activated, and the brake force acting in the system corresponds to a ratio between the determined actuating travel and a vehicle deceleration to be effected by the brake system (4).
- 11. Method for actuating a brake system (4) to accomplish a brake assist function, especially for automotive vehicles, wherein a control unit (5) executes the following steps:
 - reducing a damping effect and/or a counterforce of a brake pedal (1) when the brake assist function is activated, and

A1 cont.

of the brake pedal (1) which is sensed by way of a sensor (2) of the brake pedal (1) for determining the vehicle deceleration which is to be effected by the brake system, and

changing a brake force acting in the system depending on the actuating travel, the actuating speed and/or the acceleration of actuation of a brake pedal (1) when the brake assist function is activated, and the brake force acting in the system corresponds to a ratio between the determined actuating travel and a vehicle deceleration to be effected by the brake system (4).

INS.AL

में कियों होता किया किया है जिल्हा कि होटेंस कि होता है जो होता